

20010502.qrp v02_n177.qrl.20010502

Date: Wed, 2 May 2001 19:03:05 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2177

QRP-L Digest 2177

Topics covered in this issue include:

- 1) [97459] Hustler 4BTV Lengths?
by wb2vuo@juno.com
- 2) [97460] Miles per Watt
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 3) [97461] Re: Pounds > \$\$\$???
by "laura halliday" <marsgal42@hotmail.com>
- 4) [97462] Re: OT Posting form AOL
by PDouglas12@aol.com
- 5) [97463] Re: OT Posting form AOL
by "Rod Cerkoney" <n0rc@hotmail.com>
- 6) [97464] Re: Hand capacitance?
by "Steve Yates, AA5TB" <aa5tb@arrl.net>
- 7) [97465] Icom 730 to QRP
by Rusticartist@aol.com
- 8) [97466] Re: tiny 9-V transceivers?
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 9) [97467] RE: MK706MK2G & CW mode FOLLOW-UP
by "Rod Cerkoney" <n0rc@hotmail.com>
- 10) [97468] RE: Any QRP'er at the Hosstrader's hamfest ?
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
- 11) [97469] [MobileQRPers]Most Effective PortableAntenna?
by adamvaz@palm.net (Adam Vazquez)
- 12) [97470] [MH101] DDS VFO instead of a crystal
by adamvaz@palm.net (Adam Vazquez)
- 13) [97471] Nice Radio Shack/RCA speaker on sale. 1/2 price
by "Rod Cerkoney" <n0rc@hotmail.com>
- 14) [97472] Re: [MH101] SW30+ IF crystal frequency
by ted kell <tedkell@ev1.net>
- 15) [97473] FS MFJ QRP RIG
by MertNellis@aol.com
- 16) [97474] WM-20 and Ramsey QRP AMP
by Robert Wright <rwright@soml.com>
- 17) [97475] KBT1 field test report (K1 internal battery)
by Wayne Burdick <n6kr@elecraft.com>
- 18) [97476] Re: [MH101] DDS VFO instead of a crystal
by "Leon Heller" <leon_heller@hotmail.com>
- 19) [97477] Index Labs QRP ++ Alignment

by Tim ORourke <TORourke@KaiserFT.com>
20) [97478] [OT] Mysteries of 30-meters
by "Conant, Paul" <paul.conant@lmco.com>
21) [97479] Re: balun
by "Lau, Zack, W1VT" <zlau@arrl.org>
22) [97480] Bending aluminum
by "Lau, Zack, W1VT" <zlau@arrl.org>
23) [97481] Re: KBT1 field test report (K1 internal battery)
by "N7SG K7FD" <k7fd@hotmail.com>
24) [97482] Re: Looking for a broken part in my old receiver...
by "Lau, Zack, W1VT" <zlau@arrl.org>
25) [97483] Re: [OT] Mysteries of 30-meters
by mulveyr@iname.com
26) [97484] Re: [OT] Mysteries of 30-meters
by "Brian" <bmmurray@amexol.net>
27) [97485] New Kind of Batter coming soon
by Unknown <jennings@eznet.net>
28) [97486] RE: Any QRP'er at the Hosstrader's hamfest ?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
29) [97487] RE: TT2, which can?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
30) [97488] Re: Currency Conversion
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
31) [97489] QQ
by "Francis Callahan" <colcal@srv.net>
32) [97490] Re: Index Labs QRP ++ Alignment
by Bruce Muscolino <w6toy@erols.com>
33) [97491] Re: [OT] Mysteries of 30-meters
by Bruce Muscolino <w6toy@erols.com>
34) [97492] QRP Speakers
by "William H. Launer" <wlauner@mail.win.org>
35) [97493] RE: New Kind of Battery coming soon
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
36) [97494] FDIIM Ride Available from Houston
by "Ed Manuel (N5EM)" <n5em@flash.net>
37) [97495] RE: Any QRP'er at the Hosstrader's hamfest ?
by "Steven Weber" <kd1jv@moose.ncia.net>
38) [97496] RE: Any QRP'er at the Hosstrader's hamfest ?
by Jim Cluett <w1pid@yahoo.com>
39) [97497] RE: Any QRP'er at the Hosstrader's hamfest ?
by <skousen@srv.net>
40) [97498] Re: [OT] Mysteries of 30-meters
by "laura halliday" <marsgal42@hotmail.com>
41) [97499] Re: Hustler 4BTV Lengths?
by wb2vuo@juno.com
42) [97500] Fifth NEQRP SSB NET was TUFFF!
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
43) [97501] Re: [OT] Mysteries of 30-meters

by mulveyr@iname.com

44) [97502] Noise blanker for TT 580 Delta
by Cellobrown@aol.com

45) [97503] A "Trying" time with SMK-1
by "Delbert Long" <ad6we@hotmail.com>

46) [97504] Re: A "Trying" time with SMK-1
by Bruce Muscolino <w6toy@erols.com>

47) [97505] QRPTTF Photos NOUR
by "Jim" <n0ur@mn.mediaone.net>

48) [97506] V22 for sale
by Michael Goins <mgoins@usa.net>

49) [97507] Re: [MH101] DDS VFO instead of a crystal
by "Steven Weber" <kd1jv@moose.ncia.net>

50) [97508] Re: [OT] Mysteries of 30-meters
by "Paul Harden, NA5N" <na5n@rt66.com>

51) [97509] Re: [MH101] DDS VFO instead of a crystal
by "laura halliday" <marsgal42@hotmail.com>

52) [97510] Re: QRPTTF
by "Delbert Long" <ad6we@hotmail.com>

53) [97511] Re: [OT] Mysteries of 30-meters
by Garie Halstead <k8kfj@ntelos.net>

54) [97512] NEQRP SSB NET QUERY
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>

55) [97513] Re: [OT] Mysteries of 30-meters
by Bruce Muscolino <w6toy@erols.com>

56) [97514] Re: [OT] Mysteries of 30-meters
by Bruce Muscolino <w6toy@erols.com>

57) [97515] Re: [OT] Mysteries of 30-meters
by "Charlie Corp" <k2pc@adelphia.net>

58) [97516] Epiphyte-3. Still in bag.
by JJ&A <w7ls@blarg.net>

59) [97517] Re: [OT] Mysteries of 30-meters
by mulveyr@iname.com

60) [97518] RE: [MobileQRPers]Most Effective PortableAntenna?
by "Charles Mabbott" <crmabbott@mediaone.net>

61) [97519] Re: [OT] Mysteries of 30-meters
by "Charlie Corp" <k2pc@adelphia.net>

62) [97520] RE: Any QRP'er at the Hosstrader's hamfest ?
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>

63) [97521] Ameco R5 Schematic
by Curt Milton <wb8yyy@yahoo.com>

64) [97522] Re: Hand capacitance?
by Curt Milton <wb8yyy@yahoo.com>

65) [97523] RE: Any QRP'er at the Hosstrader's hamfest ?
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>

66) [97524] RE: Any QRP'er at the Hosstrader's hamfest ?
by Jim Cluett <w1pid@yahoo.com>

67) [97525] Re: [OT] Mysteries of 30-meters

by "laura halliday" <marsgal42@hotmail.com>
68) [97526] Re: [OT] Mysteries of 30-meters
by "laura halliday" <marsgal42@hotmail.com>
69) [97527] Re: [OT] Mysteries of 30-meters
by "Mike Yettsko" <myetsko@insydesw.com>
70) [97528] FS: Epiphyte 3 kit, MS-15 kit
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
71) [97529] Re: QRPTTF
by "Paul Harden, NA5N" <na5n@rt66.com>
72) [97530] [Dayton] Dayton Hamvention & Rooms
by Hank Kohl K8DD <k8dd@arrl.net>

Date: Tue, 1 May 2001 19:07:43 -0400
From: wb2vuo@juno.com
To: qrp-l@lehigh.edu
Subject: [97459] Hustler 4BTV Lengths?
Message-ID: <20010501.190744.-380261.0.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A member in the Brockport Amateur Radio Klub just recently got a 4BTV, missing the top section but mostly complete.

Does anyone have the manual, and if so can you scan the assembly instructions? We would like to use this as a backup antenna for Field Day, and I have been asked to get the beast up & running.

Thanks, and we WILL be running QRP/Battery at K2BRK!

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp
President, Brockport Amateur Radio Klub & Tech Coordinator, ARRL WNY
Section
My night light runs more power than my Rig!!!
Replies - <mailto:wb2vuo@arrl.net>

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Tue, 1 May 2001 19:20:28 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:lejek@erols.com" <lejek@erols.com>

Cc: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>, "W.D.(Doc)Lindsey/K0EVZ"
<70511.3041@compuserve.com>
Subject: [97460] Miles per Watt
Message-ID: <200105011920_MC2-CE91-D1AE@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Larry:

Guess you could go for *really QRPp* -- just go outside and whisper as
softly as possible :-). If you can do this during a terrific thunderstor=
m
and or tornado, the effect will be heightened. No.....actually, kudos=
for a job well done. I have not had the guts to try QRPp very often, but=
may do so as you are a true inspiration. =

72,
--Doc/K0EVZ

Date: Wed, 02 May 2001 00:00:31
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [97461] Re: Pounds > \$\$\$???
Message-ID: <F480KmR6sB1Lu8kHJrK000085da@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Ed Tanton (n4xy@att.net) asked:

>Anybody know the going rate? Specifically, how much is L62?????????

Web sites notwithstanding (I check my bank's for such
things at <<http://www.royalbank.ca/travel/fxconvert.html>>),
this information is also published in the financial
section of newspapers.

I guess that's not trendy enough any more. :-)

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."

ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Tue, 1 May 2001 20:09:56 EDT
From: PDouglas12@aol.com
To: n0rc@hotmail.com, qrp-1@lehigh.edu
Subject: [97462] Re: OT Posting form AOL
Message-ID: <be.13d351a0.2820aa54@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Rod,

This question does affect a number of list members and is probably appropriate to post, so I am doing so.

I posted this hint a while back, but it bears repeating. It's not my original idea, but I forget who gave it to me. The problem only occurs with AOL 6.0. Users should consider NOT upgrading from version 5.0 until AOL solves this problem with the next version. The problem is that AOL 6.0 sends all email as HTML which is intercepted by most mail list servers; there is no switch to turn off this dumb "feature" in 6.0. I've written a detailed complaint to AOL, but they're too big to care, and I've only ever gotten canned responses back. There is, however, a workaround that's not too difficult.

If you must use 6.0, write your email normally, but before you send it, click on EDIT, SELECT ALL (this will highlight all of your text); then RIGHT click anywhere on the highlighted text and select TEXT, then NORMAL from the drop down menus. This will convert your text to normal ASCII, and you should be able to post to any mail list.

Hope this helps.

Preston WJ2V

Date: Tue, 1 May 2001 18:25:10 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: <PDouglas12@aol.com>, <qrp-1@lehigh.edu>
Subject: [97463] Re: OT Posting form AOL
Message-ID: <0E71GFTS0aWrz4ePpKQ000005bf0@hotmail.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Preston,

Your absolutely correct this info does bear posting. In fact it should probably be capture in our "Knowledge Base", the FAQ.

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

----- Original Message -----

From: <PDouglas12@aol.com>
To: <n0rc@hotmail.com>; <qrp-l@lehigh.edu>
Sent: Tuesday, May 01, 2001 06:09 PM
Subject: Re: OT Posting form AOL

> Rod,
> This question does affect a number of list members and is probably
> appropriate to post, so I am doing so.

>

....

Date: Tue, 01 May 2001 19:39:10 -0500
From: "Steve Yates, AA5TB" <aa5tb@arrl.net>
To: QRP-L Distribute <qrp-l@Lehigh.EDU>
Subject: [97464] Re: Hand capacitance?
Message-ID: <001901c0d2a0\$4fdf2bc0\$212abcd0@pavilion>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Bob,

Here is what sometimes happens...

Simply direct conversion receivers of course have their local oscillators (LO) operating at the receiver frequency. This LO is often radiated out of

the chassis via power cables, antenna coax, and/or the cabinet itself. The L0 is then picked up by the (or a) AC operated power supply. A linear power supply will use rectifier diodes of course to rectify the AC. This process "turns" the diodes on and off at 60 times per second. Any RF from the L0 that makes its way into the power supply will be modulated at 60 Hz due to the process of a path making and breaking at 60 Hz (the rectifier diodes). This modulated L0 signal will then re-enter the receiver and mix with the incoming RF and a detectable hum will present.

In your case the process of touching the cabinet probably reduces the amount of L0 signal radiated by the chassis. The rectifiers diodes may be in either your AC power supply to the HW-8 or a supply to something else in the shack.

Solving the problem can be difficult. Sometime just using a battery supply will suffice to alleviate the problem. At other times it will be necessary to RF bypass the rectifiers with capacitors. The handbook has (or had) information on how to do this at one time. In your case, grounding the chassis may be all that is necessary if you haven't already done so.

Good luck. I remember the hum problems well.

73,
Steve Yates - AA5TB
Fort Worth, Texas
Grid Square: EM12gs
aa5tb@arrl.net
<http://www.geocities.com/aa5tb/>

Date: Tue, 1 May 2001 20:43:55 EDT
From: Rusticartist@aol.com
To: qrp-l@lehigh.edu
Subject: [97465] Icom 730 to QRP
Message-ID: <a9.14f17caa.2820b24b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all, I read the post about adjusting an icom 735 to 5watt output but my icom 730 apparently does not have the same adjustmen pot. If anybody is using a 730 for qrp I would be interested how to make the adjustment. Currently my rig only adjust down to 10-11 watts via the front power output control.

Thanks in advance.....Jerry kg2jff

Date: Tue, 01 May 2001 16:15:26 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: qrp-1@lehigh.edu
Subject: [97466] Re: tiny 9-V transceivers?
Message-ID: <4.3.2.7.2.20010501161243.00bdf750@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Also, if you are doing this for a demonstration or intentionally limited operation, go to Radio Shack and buy one of their 9 vdc Lithium Batteries. Costs \$7 but provides 1200 mahr! That will wring a few more QSOs out of the cubic inches. Sadly, you cannot recharge them, but if you are going on an outing that will cost you time, effort, money and gas (at nearly \$2 a gallon), what's \$7 for a premium battery.

Ed, N5EM

At 08:36 PM 5/1/01 +0100, you wrote:
>edu
>
>The K1 will do it. Check out my web site for a list of QSOs worked with
>the K1 and a 9 volt NiMH battery. 31 states worked so far. Look under the
>K1 - 9 volt battery link off the main page.
>
>The SSTs will also do it, but you need to do the mod in the manual to use
>the 9 Volt battery.
>
>The DSW rigs are also good down to 8 volts.

Date: Tue, 1 May 2001 20:34:05 -0600
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97467] RE: MK706MK2G & CW mode FOLLOW-UP
Message-ID: <0E59voFOAmEaJswFCH000005b68@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

First let be better describe the sound I am hearing while keying, it no really a thump, more of a scratchy click--like you've heard so many

times tuning on radios, TV...etc.

It does not vary with the front panel volume setting, in fact it can be masked by high volume settings. If the volume is set to minimum, the sound is still there. Something in the audio chain after the volume control.

Perhaps I'll get a service manual one day & see if I can fix it, For now I can live with it, it's not that bad.

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

Date: Tue, 1 May 2001 22:45:37 -0400
From: "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
To: <mprati@postech.ca>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97468] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <LPBBJAGIPFHKPJENAKLOEEENEIAA.n1bq@wulfdn.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

KB1ENS, KM1Z, and myself, N1BQ will be there. Look for me in the camping area with a black Blazer with a 20 foot fiberglass mast up and a 20m dipole and either a K-1 or an FT817 hung on the end ...

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Maxime Prati
> Sent: Tuesday, May 01, 2001 11:51 AM
> To: Low Power Amateur Radio Discussion
> Subject: Any QRP'er at the Hosstrader's hamfest ?
>
>
> Hi,
>
> Any fellow will be at the hamfest next week-end ?

>
>
> 73 / 72 de VE2HAC
> maxime prati
>

Date: Tue, 01 May 2001 22:46:40 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: qrp-l@Lehigh.EDU
Subject: [97469] [MobileQRPers]Most Effective PortableAntenna?
Message-ID: <GCOT1T00.5NF@mo110usjc.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

After using a SG-2020 in the mobile for 2 years, I have to decided to move the station out into the great outdoors.

I am tired of trying to clean up the RFI generated out of my 1997 Mitsubishi. Maybe if they had better support and had not placed such a junk-generating ignition system.

Besides, my car seats suck and the gnats and mosquitoes too often collect in the vehicle. I get tired of the smell and taste of skeeter spray in an enclosed space.

My most pressing problem now is getting an effective HF multi-band antenna that operator-easy to setup and take down.

The antenna should be rather compact and be human and environmentally friendly.

I setup where human tourists as well as deer and wildlife forage. Don't laugh, I have had a curious doe investigate my car by sticking her head through the drivers window. I had some off-frequency CW on the radio awhile updating the log. I looked up and got a big surprise.

So far the near-backbreaking station (pre-FT-817) consists of:

*17 AH 12v battery(a car battery jumper w/ built-in LED voltmeter)

*SGC SG-2020

*Mizuho 10m SSB/CW HT (wish I had the Tokyo HiPower HT)

*Kenwood TR-751 2M all-mode

*Ten-Tec 8w 6M<-2M transverter mounted on top of 2M.

* 2m and 440 torpedo GP from Italy.

*a 4 foot Outbacker Stealth+ mounted on the trunk with the mobile mount.

* a half-size G5RV

* MFJ 941 and 945 tuners (the newer 945 already needs new caps due to my rough shipping.)

Anyone have a suggestion to the next move?

Adam Kb2Jpd

Date: Tue, 01 May 2001 22:48:16 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: k7qo@earthlink.net, qrp-1@Lehigh.EDU
Subject: [97470] [MH101] DDS VFO instead of a crystal
Message-ID: <GCOT4G00.LJQ@mo110usjc.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello de Adam Kb2Jpd

About several years ago, I was investigating several designs for a DC-to-daylight homebrew transceiver.

Central to the theme was the radio reception was to be as quiet as possible. I researched about as much of radio design as I could. (courtesy of the Handbook and Doug McCaw)

Then I saw in a British ham/electronics rag standalone RF modules from a forgotten catalogue.
Numerically Controlled Oscillators, wide-band mixers, and RF bricks.

Maybe someone could design something along those lines:a fully adjustable DDS VFO with outboard computer control. The neat thing about

using DDS is you could do practically any type of modulation.

Any takers, please ??

Adam Kb2Jpd

Date: Tue, 1 May 2001 21:24:02 -0600
From: "Rod Cercone" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <elecraft@qth.net>, <icom@qth.net>, "Flying Pigs" <fpqrp-1@mpna.com>, "ncarc-1" <ncarc@qth.net>
Subject: [97471] Nice Radio Shack/RCA speaker on sale. 1/2 price
Message-ID: <0E37FT3kMUVfNIJWNDI00005a17@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

It's a new month and the Radio Shack flyer arrived with this deal:

A very nice, small, bookshelf speaker for \$20! It works great with the Icom 706 and the K2. Here is a small picture to give you an idea of size:

http://www.qsl.net/n0rc/rca_speaker.html

It has a nice sound for AM/FM BCB and CW/SSB as well.

The speaker is Radio Shack #40-5000, basic specs:

140-20, 000Hz
15 watts RMS, 30 watts max
1" ferro-cooled polyester film tweeter
3" cone woofer
87dB sensitivity
8-ohm impedance
RCA Model# PRO-X33AV

Available in the stores and on-line at:

<http://radioshack.dailyshopper.com/index.asp?pagename=moreinfo&zipcode=80525&uniqueid=153357>

73, Rod N0RC
Ft Collins, CO

SuperFest 2001 14-Jul-2001
<http://www.qsl.net/n0rc/hamfest/hamfest.html>
BE THERE!

Date: Tue, 01 May 2001 22:49:04 -0500
From: ted kell <tedkell@ev1.net>
To: k7qo@earthlink.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97472] Re: [MH101] SW30+ IF crystal frequency
Message-ID: <200105012250267.SM00140@home>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii";

5/1/01 18:52:09 PM, "Chuck Adams, K7Q0" <k7qo@earthlink.net> wrote:

>
>Gang,
>
>Got the above from Ed and he forgot to send it to the list. He is so shy and he
is correct.
>And the only one to stand up and give the answer in a crowded room.
>

If Ed is shy, I'm an elephant. He is the leader of the Houston group, not a job
for the shy.

N3Ted

Date: Wed, 2 May 2001 00:04:39 EDT
From: MertNellis@aol.com
To: qrp-l@lehigh.edu, mnqrp-l@qth.net
Subject: [97473] FS MFJ QRP RIG
Message-ID: <91.a3461e7.2820e157@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

My friend, Thor W0QIK asked me to put this on the qrp-l

For Sale:

1) MFJ 5 watt Integrated CW Station consisting of:

MFJ 9020 20 meter transceiver

MFJ 9017 17 meter transceiver

MFJ 971 Antenna Tuner

MFJ 4114 Power Pack

Each transceiver has MFJ 412 Iambic Keyer installed as well as MFJ 726 Audio Filter.

Power pack has 12 D size 1400mAH batteries

Great for QRP or Field Day

Total Cost \$ 882.65

For Sale \$350.00

Call Thor Lyford W0QIK (636) 1857

e-mail: tlyford@worldnet.att.net

Date: Tue, 01 May 2001 21:48:31 -0700
From: Robert Wright <rwright@soml.com>
To: qrp-l@lehigh.edu
Subject: [97474] WM-20 and Ramsey QRP AMP
Message-ID: <4.0.2.20010501214019.016032b0@pop.sonic.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dear QRP-L Gang,

Has anyone had any experience using the SWL WM-20 SSB rig with the 20 watt Ramsey QRP 20 mtr amplifier? I have yet to make any SSB contacts with my WM-20 - probably a result of my stealth antennas more than anything- but wanted to use a small amp to up the output power a bit. Please send any thoughts to me especially if you have tried this combination. Thanks!

VY 72,
Bob K7RRW
Santa Rosa, CA
Norcal #201

Date: Tue, 01 May 2001 22:22:53 -0700
From: Wayne Burdick <n6kr@elecraft.com>

To: qrp <qrp-1@lehigh.edu>, elecraft@elecraft.com
Subject: [97475] KBT1 field test report (K1 internal battery)
Message-ID: <3AEF9995.A3C81DE6@elecraft.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A fine afternoon was had by Charlie (W4NJK) and myself as we hiked up to Edgewood Park, about 25 miles S. of San Francisco. WX was great--73 degrees, just a bit of a breeze--and we could see across the Bay from our 800' elevation. Our goal: to test the K1's internal battery pack under field conditions.

This trip was hastily put together, so I forgot a few things: bug repellent, BNC "L" for the K1 antenna jack, weight for tossing the wire in a tree, and something to sit on. We made do. And I have a nice list for next time.

We tossed 20' of hookup wire into an oak tree using Charlie's water bottle as a weight, then laid out one radial of similar length. The KAT1 found a 1.1:1 match on 40 and 20 meters.

Starting voltage for the KBT1 battery pack was 11.0 V. Apparently 8 freshly-charged NiMH cells will stay well above their nominal 9.6 V rated level for quite a while.

Now this is strictly unscientific, but we were in QSO mode for most of two hours, using 4 watts on 40 and 20 meters, and the battery voltage dropped from 11.0 to 10.3 V. From previous observation of NiMH discharge curves, I know there's a long, slow drop from 10.5 to 9 volts, and my guess is that we could have operated for over six hours before reaching the K1's minimum operating voltage (about 8 V). We didn't have time to find out, but I'll be running the batteries down during normal shack operation over the next couple of days to see what the real number is.

Charlie had a long QSO with Doc, K0EVZ (South Dakota), plus VE7BX0. I then hooked up with Steve, W7QC/M (a great op, BTW). Immediately after that QSO, I was called by John, K7FD, who was using the PTT switch on his mic to send CW. (I was surprised to hear him sending so slowly, and didn't recognize the call at first!)

The biggest surprise of the afternoon was finding our intended departure route blocked by a rattlesnake, est. 3 feet long, nearly hidden by tall grass as it slithered past a log. Another item for the list: snakebite kit! We went the long way instead.

Our conclusion was that the KBT1 really did its job. It's neat to have the battery and tuner in the box. The Paddlette K1-custom paddle (that

attaches to the tilt stand) also worked very well in the field.

Folks, if you have to do exhaustive testing of ham gear, this is the way to do it!

73,
Wayne
N6KR

P.S. We still haven't set a price or shipping date for the KBT1, but we will in the next two weeks.

Date: Wed, 02 May 2001 10:00:30
From: "Leon Heller" <leon_heller@hotmail.com>
To: adamvaz@palm.net, qrp-1@Lehigh.EDU
Subject: [97476] Re: [MH101] DDS VFO instead of a crystal
Message-ID: <F1604I5JvgjvSRjCftC00006ced@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>Then I saw in a British ham/electronics rag standalone RF modules from
>a forgotten catalogue.
>Numerically Controlled Oscillators, wide-band mixers, and RF bricks.
>
>Maybe someone could design something along those lines:a fully
>adjustable DDS VFO with outboard computer control. The neat thing about
>using DDS is you could do practically any type of modulation.
>

Several of us have played about with DDS devices like the AD9850. They work OK, but there are some problems. One is the power consumption of the chips - they take a lot of current. Another is getting a really clean output across the whole range, they tend to generate spurs, which ideally require a PLL to clean them up. Also, they are rather expensive devices with lots of very small leads, and the PCBs can't really be made at home. Availability is another problem, the supply of AD9850 chips dries up from time to time.

I've got some info on my web page.

73, Leon

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 2 May 2001 07:20:25 -0400
From: Tim O'Rourke <TO'Rourke@KaiserFT.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [97477] Index Labs QRP ++ Alignment
Message-ID: <910D8E9955E3D411B3AE00A0C9319CB801A70B@MAIL>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Has any one published a detailed alignment procedure for the QRP++. I obtained a used one and the output varies from 2 to 7 watts on different bands while feeding a dummy load. I can bring the low output bands up to full output using a tuner into same dummy load. I believe this is telling me that some bands need tweaked. TNX in advance. Tim O'Rourke
KG4CHX@ARRL.Net

Date: Wed, 02 May 2001 06:34:39 -0600
From: "Conant, Paul" <paul.conant@lmco.com>
To: "Qrp-L (Post To List) (E-mail)" <qrp-l@lehigh.edu>
Subject: [97478] [OT] Mysteries of 30-meters
Message-ID: <675067CF647BD4118DEA00508BE32AB47EAB16@emss02m09.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I usually sit down to breakfast with my little Vectronics xmtr/rcvr pair on the table. Generally, the band is pretty quiet at that time; open, but quiet. I frequently hear a strong station that comes on about 1100 UTC that sends five-letter groups, encrypted, for at least fifteen or twenty minutes. I have to get on with the day before the transmission ends. Does any one have any clues about where this transmission originates, or any other information about it?

Paul, WQ5X

Date: Wed, 2 May 2001 08:46:45 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [97479] Re: balun
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9E0A@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"

I found that 11 turns of RG-58 coax on an FT-140-43 core makes an effective 1:1 HF balun.--Zack W1VT

Date: Wed, 2 May 2001 08:53:37 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [97480] Bending aluminum
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9E0B@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

There is a rec.crafts.metalworking thread on "Bending 1/8" 6061"
It can be done with a 4x bend radius--use a 1/4" bend radius
for 1/16" sheet metal, preferably against the grain.

I ought to mill some bar stock with the right radii for
my Little Giant brake--Zack W1VT

Date: Wed, 02 May 2001 06:00:26 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-1@Lehigh.EDU
Cc: elecraft@qth.net
Subject: [97481] Re: KBT1 field test report (K1 internal battery)
Message-ID: <F86nidKrlVKvH9o1lcj00011b73@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Wayne Burdick <n6kr@elecraft.com>

>Charlie had a long QSO with Doc, K0EVZ (South Dakota), plus VE7BX0. I
>then hooked up with Steve, W7QC/M (a great op, BTW). Immediately after
>that QSO, I was called by John, K7FD, who was using the PTT switch on
>his mic to send CW. (I was surprised to hear him sending so slowly, and
>didn't recognize the call at first!)

It was undoubtedly the best internal battery I've ever heard... ;)

73 John K7FD/m PTT w/ no sidetone TS50s :(

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 2 May 2001 09:02:35 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [97482] Re: Looking for a broken part in my old receiver...
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9E0C@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

www.mcmelectronics.com
1-800-543-4330 They take small orders, \$3 service fee if under \$20.
I've used MCM Electronics to get Japanese semiconductors--Zack W1VT.

Date: Wed, 2 May 2001 09:26:14 -0400 (EDT)
From: mulveyr@iname.com
To: paul.conant@lmco.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97483] Re: [OT] Mysteries of 30-meters
Message-ID: <200105021326.JAA06373@mulvey.dyndns.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

[Charset iso-8859-1 unsupported, filtering to ASCII...]
> I usually sit down to breakfast with my little Vectronics xmtr/rcvr pair on
> the table. Generally, the band is pretty quiet at that time; open, but
> quiet. I frequently hear a strong station that comes on about 1100 UTC that
> sends five-letter groups, encrypted, for at least fifteen or twenty minutes.
> I have to get on with the day before the transmission ends. Does any one
> have any clues about where this transmission originates, or any other
> information about it?
>
> Paul, WQ5X

Hi Paul:

There are quite a few of these "Numbers stations" scattered around HF. They have been DF'd to, among other places, Mossad and CIA installations.

It is generally believed that they are used to transmit encrypted instructions to field agents.

They also broadcast on phone as well. Listeners have even classified some of those broadcasts - "The English Lady", etc. Do a web search for "numbers stations", and you'll find a ton of information about them.

- Rich

Date: Wed, 2 May 2001 09:38:59 -0400
From: "Brian" <bmurrey@amexol.net>
To: <mulveyr@iname.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97484] Re: [OT] Mysteries of 30-meters
Message-ID: <000b01c0d30d\$40135be0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My favorite of all times.....

On 7415 several years ago, SWBC pirate stations used to congregate and play parody stuff...I was listening in one night to a station called "East Coast Beer Drinker Radio" and they were spoofing a spanish numbers station...instead of "uno uno quatro cinco dos" it was "taco taco burrito frijole guacamole"

It just cracked me up.

72

----- Original Message -----

From: <mulveyr@iname.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, May 02, 2001 9:26 AM
Subject: Re: [OT] Mysteries of 30-meters

> [Charset iso-8859-1 unsupported, filtering to ASCII...]
> > I usually sit down to breakfast with my little Vectronics xmtr/rcvr pair
on
> > the table. Generally, the band is pretty quiet at that time; open, but

> > quiet. I frequently hear a strong station that comes on about 1100 UTC that
> > sends five-letter groups, encrypted, for at least fifteen or twenty minutes.
> > I have to get on with the day before the transmission ends. Does any one
> > have any clues about where this transmission originates, or any other
> > information about it?
> >
> > Paul, WQ5X
>
>
> Hi Paul:
>
> There are quite a few of these "Numbers stations" scattered
> around HF. They have been DF'd to, among other places, Mossad
> and CIA installations.
>
> It is generally believed that they are used to transmit
> encrypted instructions to field agents.
>
> They also broadcast on phone as well. Listeners have even
> classified some of those broadcasts - "The English Lady", etc.
> Do a web search for "numbers stations", and you'll find a
> ton of information about them.
>
> - Rich
>
>
>

Date: Wed, 02 May 2001 13:44:49 GMT
From: Unknown <jennings@eznet.net>
To: qrp-1@lehigh.edu
Cc: thomas.jennings@us.abb.com
Subject: [97485] New Kind of Batter coming soon
Message-ID: <20010502134449.12638.qmail@eznet.net>
Mime-version: 1.0
Content-type: text/plain; charset="us-ascii"

Gang,
I thought you all may be interested in what I read
in this weeks EE Times. There is an article stating
that manufacturers are getting ready to release a fuel cell
scaled down to be used in laptops. The cells should be ready in a year.

Sorry about the lack of details but the paper is at home and I can't get to EE Times web site to extract some quotes.

73,
Tom kv2x

Date: Wed, 2 May 2001 09:51:51 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'mprati@postech.ca'" <mprati@postech.ca>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97486] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <125490A005E3D3118C9C00805FC743CC023B2CC3@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

From: Maxime Prati [mailto:mprati@postech.ca]

>Any fellow will be at the hamfest next week-end ?

A number of ARRL Labbies will be there this weekend. I will be there on Friday, starting at about 10:00 AM or so. Over the past year, I had taken in about two full offices full of fine junque, mostly tube- and hybrid-ere Tektronix and HP scopes and plug ins. I am renting a big UHaul and will be in about 3 spaces in the outdoor flea market area somewhere. A few of us are spending the night in our sleeping bags, so a bit o' partying will be fine. Stop on by. Unfortunately, all I drink nowadays is Diet Coke or O'Doul's, but I will gladly meet any of the QRP gang there.

Almost all of these scope mainframes will go cheap. I am thinking \$10.00 each or two for \$10.00 (this is not a typo -- I don't want to bring any back). They will be sold as is -- physically complete and hopefully repairable. At the price, the vernier drives, tubes, tube sockets and the like gotta' be worth it. I will post a lost later. I may set aside some of the 50- and 85-MHz scopes and ask a bit more for them, but not a lot. :-)

The "common" plug ins will be sold for \$10.00 each, or two for \$10.00. :-)
I have a few of the less common (4-channel, sampling, diode testers, etc), especially the less-common Tektronix. I will be asking more for these -- \$20 a pop. (I don't mind taking these back.) If they don't sell, I can try them on Ebay.

Unfortunately, the scopes really are too big to ship, but I will ship smaller items and plug ins.
I will post a list of the available scopes and a partial list of the plug ins later today.

100% of the proceeds of this are going to be put into the ARRL Lab test-equipment fund. Maybe we can sell of this fine junque and buy a down payment on some modern test equipment. FWIW, the Uhaul is my donation to ARRL. :-)

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

-----Original Message-----

From: Maxime Prati [mailto:mprati@postech.ca]
Sent: Tuesday, May 01, 2001 11:51 AM
To: Low Power Amateur Radio Discussion
Subject: Any QRP'er at the Hosstrader's hamfest ?

Hi,

Any fellow will be at the hamfest next week-end ?

73 / 72 de VE2HAC
maxime prati

Date: Wed, 2 May 2001 09:55:08 -0400
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97487] RE: TT2, which can?
Message-ID: <125490A005E3D3118C9C00805FC743CC023B2CC4@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I beg your pardon! I built a TT2 using a can of powdered coconut... oops, wait; that was supposed to be a secret!

73,
Ed Hare, W1RFI

-----Original Message-----

From: Lofstead, Jerry [mailto:Jerry.Lofstead@itb.mckhboc.com]
Sent: Tuesday, May 01, 2001 10:25 AM
To: Low Power Amateur Radio Discussion
Subject: RE: TT2, which can?

I'll bet you have a SWEETER signal than the tuna tin!!

8-)
Jerry
W3CDE

Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

-----Original Message-----

From: Steve McDonald [mailto:jsm@gulfislands.com]
Sent: Tuesday, May 01, 2001 10:22 AM
To: Low Power Amateur Radio Discussion
Subject: Re: TT2, which can?

>I used a pineapple bits can for mine to get a little
> more depth ...

It will never work! You can't build a Tuna Tin II with a pineapple can...sacrilege!

Steve / VE7SL :-)

Date: Wed, 2 May 2001 08:55:05 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>

To: "'marsgal42@hotmail.com'" <marsgal42@hotmail.com>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [97488] Re: Currency Conversion
Message-ID:
<E78D8A9D6762D411B5440008C791D4AA04A49A95@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

Newspaper? Newspaper? What in the world is *that*?

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: laura halliday [SMTP:marsgal42@hotmail.com]
> Sent: Tuesday, May 01, 2001 7:01 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Pounds > \$\$\$???
>
> Web sites notwithstanding (I check my bank's for such
> things at <<http://www.royalbank.ca/travel/fxconvert.html>>),
> this information is also published in the financial
> section of newspapers.
>
> I guess that's not trendy enough any more. :-)
>
> Laura Halliday VE7LDH "Que les nuages soient notre
> Grid: CN89mg pied a terre..."
> ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte
>

Date: Wed, 2 May 2001 08:25:40 -0600
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@Lehigh.EDU>
Subject: [97489] QQ
Message-ID: <002701c0d313\$c4688f40\$dbdd070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just recieved my new QQ and another great issue thanks to all involved. 73
Cal KF7ET misplaced Vermonter in Idaho

Date: Wed, 02 May 2001 10:46:16 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: TORourke@KaiserFT.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [97490] Re: Index Labs QRP ++ Alignment
Message-ID: <3AF01DB8.32B3DE04@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tim,

The use of a tuner to increase output on some bands does not indicate your rig needs any realignment. Instead it points the finger at your dummy load. What kind of a dummy load are you using? Do you know it is absolutely flat across all frequencies? What you are doing is matching the transmitter output to the load. It seems unlikely, unless someone has gotten into the transmitter, that the output stage or filters would have shifted enough to show an impedance difference.

73

Date: Wed, 02 May 2001 10:49:22 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: paul.conant@lmco.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [97491] Re: [OT] Mysteries of 30-meters
Message-ID: <3AF01E72.D5AE18F0@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul,

30 meters is a shared frequency allocation. It is used by several governments to send traffic between embassies and for other purposes. We have the right to use the band as long as we do not interfere with their use. What you are probably hearing is an embassy station. Somewhere in the transmission, which BTW makes great code practice, you will find the station identifying itself. Listen for that and you can imply an origin!

73

Date: Wed, 2 May 2001 10:01:49 -0500
From: "William H. Launer" <wlauner@mail.win.org>
To: qrp-1@Lehigh.EDU
Subject: [97492] QRP Speakers
Message-ID: <103130302b715d0dae7e9@[204.184.55.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Office Max has a pair of nice, un-amplified computer speakers for \$9.99, with a \$9.00 Mail-in rebate. They come connected to a stereo plug, but it's easy to clip one lead and install a connector on the second speaker. Certainly a good "qrp" price!

Bill wb0cld

Bill Launer wb0cld
St. Charles, MO

Date: Wed, 2 May 2001 11:31:49 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
To: "'jennings@eznet.net'" <jennings@eznet.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97493] RE: New Kind of Battery coming soon
Message-ID: <078F21595FA7D411B87B00805FA728E64A46FB@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The web site is <http://eetimes.com/story/technology/0EG20010427S0037>

Jerry
W3cde

-----Original Message-----
From: Unknown [mailto:jennings@eznet.net]
Sent: Wednesday, May 02, 2001 6:45 AM
To: Low Power Amateur Radio Discussion
Subject: New Kind of Batter coming soon

Gang,

I thought you all may be interested in what I read in this weeks EE Times. There is an article stating that manufacturers are getting ready to release a fuel cell scaled down to be used in laptops. The cells should be ready in a year.

Sorry about the lack of details but the paper is at home and I can't get to EE Times web site to extract some quotes.

73,

Tom kv2x

Date: Wed, 02 May 2001 11:05:16 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: hats@stevens.com
Cc: qrp-1@lehigh.edu;, hqrp@stevens.com;, rmg@clarc.org;, atv@clarc.org
Subject: [97494] FDIS Ride Available from Houston
Message-ID: <4.3.2.7.2.20010502105522.00be0800@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

A seat is available for travel to Dayton, 2001. Here are the specific details.

We leave Houston, Tx on Tuesday, May 15th. We will spend one night on the road and arrive at the QRP "Hilton" in Dayton (yea, I know its really just South of Dayton) on Wednesday night.

We'll stay four nights (Wed, Thurs, Fri, Sat) and depart Dayton after lunch on Sunday. We'll spend Sunday night on the road and arrive back in Houston Monday night, May 21 real late. YEP, that's a whole week! Tell the boss you are having Chronic Stress Disorder and need to get away.

We will be traveling in a large F-350 Pickup - very roomy and large payload space in back :-) Lots of radios to use on the trip, of course.

We need a fourth for the trip. You can depart with us in Houston or you can meet us along the intended route. We have a bed for you in Dayton.

All you need is to be a congenial sort, non-smoker preferred, male (don't think the wife would allow otherwise), and ready to have some serious total immersion Ham Radio Fun - with the emphasis on QRP and maybe ATV (multi-dimensional sorts, we are).

Need to hear from you ASAP, of course.

We can accomodate some small deviations from the route but if you do a Yahoo map from Houston to Dayton, you will have a pretty good idea of where we will be passing by.

Ed Manuel, N5EM
n5em@amsat.org

Date: Wed, 2 May 2001 11:54:06 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [97495] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <200105021626.f42GQf618607@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I think I'll wander down too. A local gave me a Dentron 1KW linear I want to unload quick, before I'm tempeted to try it out :-) I'll also bring my new backpacking station packaged in a VHS cassette storage case, featuring a shirt pocket sized DSW-40 like rig..only 10.5 cu-in.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 2 May 2001 09:45:42 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: kd1jv@moose.ncia.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97496] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <20010502164542.37428.qmail@web11606.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

do we need a 2 meter simplex freq. to meet on??

w1pid@arrl.net Jim

--- Steven Weber <kd1jv@moose.ncia.net> wrote:

> I think I'll wander down too. A local gave me a
> Dentron 1KW linear I
> want to unload quick, before I'm tempted to try it
> out :-) I'll also
> bring my new backpacking station packaged in a VHS
> cassette storage
> case, featuring a shirt pocket sized DSW-40 like
> rig..only 10.5
> cu-in.
>
> 72,
> Steve, KD1JV in the white Mountains of New Hampshire
> "melt solder"

Do You Yahoo!?

Yahoo! Auctions - buy the things you want at great prices
<http://auctions.yahoo.com/>

Date: Wed, 2 May 2001 11:09:11 -0600
From: <skousen@srv.net>
To: <kd1jv@moose.ncia.net>, <qrp-1@lehigh.edu>
Subject: [97497] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <000a01c0d32a\$9c73dd20\$0501a8c0@ida.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

NO FAIR.... locals get to see, play shirt rig...

Idahoans just drool on the table and try to refocus on the software training
session under development (there is a scary thought - the geek.dev.sw
building a training program.... ;-)

Niel

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Steven Weber
Sent: Wednesday, May 02, 2001 5:54 AM
To: Low Power Amateur Radio Discussion
Subject: RE: Any QRP'er at the Hosstrader's hamfest ?

I think I'll wander down too. A local gave me a Dentron 1KW linear I want to unload quick, before I'm tempeted to try it out :-) I'll also bring my new backpacking station packaged in a VHS cassette storage case, featuring a shirt pocket sized DSW-40 like rig..only 10.5 cu-in.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 02 May 2001 17:09:28
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [97498] Re: [OT] Mysteries of 30-meters
Message-ID: <F120ymLhtnJkxWwBvt700014236@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have a couple of numbers station recordings on my web page at <<http://www.qsl.net/ve7ldh/sounds.html>>.

The CI02 station is generally believed to be Mossad.
The coded groups of numbers are generally based on one-time pads, and are thus unbreakable.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 2 May 2001 13:06:17 -0400
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [97499] Re: Hustler 4BTV Lengths?
Message-ID: <20010502.131415.-370595.1.wb2vuo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi gang. Steve, W8SFF has graciously offered to scan/send me a copy.

Many, many other offers and the correct URL for New-Tronics (With the hyphen, which I left out when searching for it...)

Thanks for the help. I'll most likely be testing out the antenna this weekend on 40 & 20M...

72/73, Keith, WB2VU0, 100% QRP from the Depths of the Great Bergen Swamp
President, Brockport Amateur Radio Klub & Tech Coordinator, ARRL WNY
Section

My night light runs more power than my Rig!!!

Replies - <mailto:wb2vuo@arrl.net>

GET INTERNET ACCESS FROM JUNO!

Juno offers FREE or PREMIUM Internet access for less!

Join Juno today! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Wed, 2 May 2001 13:19:01 -0400

From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>

To: neqrp@jonal.net, qrp-1@Lehigh.EDU

Subject: [97500] Fifth NEQRP SSB NET was TUFFF!

Message-ID: <OFFFC16D11A.341556B7-ON85256A2A.00556E66@and.us.ray.com>

MIME-Version: 1.0

Content-type: text/plain; charset=us-ascii

Started at 7,284 and called net together and had 4 checkins
but the BC noise was horrific. Moved to 7,241 and was quiet as
could be. Called for checkins and had 7:

KC1FB	Jim	Norwalk,CT	FT7
N1EU	Barry	Nr Albany,NY	FT301S+G5RV
W1KRT	Ken	Springfield,NH	SGC2020 OCFD
K2QO	Mark	Clarence,NY	OMNI VI+ Full wave loop
K1VY	Neil	Hollis,NH	Drake C-line
K1CL	Chuck	Chelmsford,MA	FT-817
K1KID	Carl	Wareham ,MA	Checked in but lost net

Your net control was

N1ZSW	Ron	Worcester ,MA	OMNI VI	windom in attic
-------	-----	---------------	---------	-----------------

All where 59+ until some QRO activity started on 7.242 (guess they did not hear the net going on!!) There was a failed attempt to QSY to 7.238 but by the time we got arrived there where more QRO people! I then lost the "net". Tried back at 7,285 to restart but no one came back.

In a last effort I tried on 7,241 and chuck, K1CL, popped up and we had

nice QS0.

Of note: Net control will try to call the net around 7.285 +- 3khz. But do to band conditions it may then move anywhere to avoid noise. So if you are a few minutes late do not hesitate to tune down as far as 7.225 to try to find us. Even the shortest net lasted until 7:20PM.

Don't forget that Field Day is coming and I'd like to beat the drum for FD SSB QRP!

R0n - N1ZSW

PS- Don't forget Thursdays NEQRP CW NET at 9:00PM on 3.561Mhz it is fun toooo!

Date: Wed, 2 May 2001 13:29:40 -0400 (EDT)
From: mulveyr@iname.com
To: marsgal42@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97501] Re: [OT] Mysteries of 30-meters
Message-ID: <200105021729.NAA07140@mulvey.dyndns.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

> I have a couple of numbers station recordings on my web
> page at <<http://www.qsl.net/ve7ldh/sounds.html>>.
>
> The CI02 station is generally believed to be Mossad.
> The coded groups of numbers are generally based on
> one-time pads, and are thus unbreakable.
>

Well, unbreakable if they're used right. The Soviets, for example, made the cardinal mistake of re-using one-time pads (even though they were repeated several years apart), and that was enough for Western intelligence agencies to decode quite a few messages, in the Venona project.

I also have a vague recollection that some of the pads generated by the British in WWII were less than completely random in some cases, because of the method of key

generation (picking ping-pong balls out of a hopper by a person), and were subsequently compromised. It may have just been a plot device in a novel I read, though. :-)

- Rich

Date: Wed, 2 May 2001 13:40:17 EDT
From: Cellobrown@aol.com
To: QRP-L@lehigh.edu
Subject: [97502] Noise blanker for TT 580 Delta
Message-ID: <4d.b11f0a2.2821a081@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Does anyone have a noise blanker for a TT580 Delta for sale?

Charlie W1HZE

Date: Wed, 02 May 2001 17:41:39 -0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [97503] A "Trying" time with SMK-1
Message-ID: <F214tMVhEUsebmspH2q000114d1@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Thanks to W6TOY I now know how to count. Took the toroid off, rewound it and it seems to work. Still stops oscillating sometimes, but not as much, and seems more stable.

Last night I tried the funky dipole again...got it up a little higher, but can't do too well in my condo system.

Heard the following stations...

WB0RNA - Ft. Worth
K6EYN - Sunland CA (per QRZ.com)
WB6NMR - Tacoma WA (per QRZ.com)
W9ZN - Chicago! (per QRZ.com)
WB6??? - Lemon Grove CA (said he was running 50W)

So the RX works fine. I just need a good antenna - thinking of lifting a wire with a balloon!

Delbert Long, AD6WE
2111 Cheyenne Way Unit 9
Fullerton, CA 92833-4912
Grid Square DM13

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 02 May 2001 13:53:56 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: ad6we@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [97504] Re: A "Trying" time with SMK-1
Message-ID: <3AF049B4.40374FC2@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the compliment. It took me a long time but I also learned!

I am sure you still have something wrong with the rig. The oscillations should not stop. Have you confirmed this is a separate receiver? How do they stop? Do they end abruptly or do they sort of taper off? What it sounds like is your oscillator does not have sufficient feedback to sustain the oscillation. Perhaps a bad, or poorly soldered, capacitor?

Why don't you try calling those local stations you hear. They are within 50 miles of Fullerton. Perhaps one of them will set up a schedule with you and you can get further information. Maybe one of them will offer to help you, or knows someone who would.

I operated from a condo for about 18 years. I used a "stealth" antenna which I wrote up in QST for June 1995. I used both commercial and homebrew radios. I worked WAS and DXCC at QRP power levels. The antenna was only about 40 feet long, stretching from a window to a nearby tree. It can be done!

73

Date: Wed, 2 May 2001 13:26:35 -0500
From: "Jim" <n0ur@mn.mediaone.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>

Subject: [97505] QRPTTF Photos N0UR
Message-ID: <000001c0d335\$8ff995c0\$1e572942@mn.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm sure some of you are getting sick of QRPTTF posts, and me, but if you would like to check my attempt to put together a site with some photos of last weekend, check it out.

http://members.theglobe.com/N0UR1/exp_fan1.html

Date: 2 May 2001 13:27:17 EST
From: Michael Goins <mgoins@usa.net>
To: qrp-l@lehigh.edu
Subject: [97506] V22 for sale
Message-ID: <20010502182717.12187.qmail@awcst169.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Someone on the list was looking for a V22 paddle. I found one that an older ham is selling. Email me if interested and I'll connect you with him.
mike

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Wed, 2 May 2001 14:00:55 +0000
From: "Steven Weber" <kdljv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [97507] Re: [MH101] DDS VFO instead of a crystal
Message-ID: <200105021833.f42IXP620997@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> > Maybe someone could design something along those lines: a fully
> > adjustable DDS VFO with outboard computer control. The neat thing about
> > using DDS is you could do practically any type of modulation.
> >

>

> Several of us have played about with DDS devices like the AD9850. They work

And if you have deep pockets, there's the AD9854, a dual 300 MBS DDS with quadrature outputs. In theory, one could use this chip with a R2/T2 set up and cover 0 to 150 MHz. Trick is switching all the input and output filters it would need.

The down side is the 9854 runs some \$70 in small quantities, comes in an 80 pin smt package with 26 mil pin spacing and consumes some 3.3 watts of power-- 1A at 3.3V!

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 2 May 2001 12:53:10 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Bruce Muscolino <w6toy@erols.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97508] Re: [OT] Mysteries of 30-meters
Message-ID: <Pine.SUN.4.10.10105021222130.9868-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 2 May 2001, Bruce Muscolino wrote:

> 30 meters is a shared frequency allocation. It is used by several
> governments to send traffic between embassies and for other purposes.

The primary commercial use of 30M is for meteorological broadcasts. The official allocations are listed in the "Klingenfuss Guide to Utility Stations" and similar sources, based on IRU allocations/licensing and shortwave monitors. No embassy traffic is listed**. The teletype stations at 10.128-10.130, for example, are part of an eastern hemisphere METEO network, broadcasting weather for Africa to India to eastern asia, with transmitters in India. About 11pm MDT, the 10.128 station goes to WEFAX for awhile, for which I have copied. And indeed, they are weather and maritime charts of the Indian Ocean, eastern Africa, etc.

** Numerous embassy frequencies are listed in the Klingenfuss book; however, I doubt all such frequencies are listed or known. Most embassies pretty much march to their own drum beats.

> What you are

> probably hearing is an embassy station. Somewhere in the transmission, which

> BTW makes great code practice, you will find the station identifying itself.
> Listen for that and you can imply an origin!

Nothing personal, Bruce, but I don't think you have ever heard these "number stations" most are referring to. Generally the code is fairly slow with NO identification of ANY kind. They come on very abruptly, drone on for minutes to tens of minutes and suddenly stop. There is no way to infer identification or origin. These number stations have been monitored by shortwave and utility monitors for years and remain a mystery, since very few have been identified. Direction finding schemes have identified some as originating from several USAF bases, the NSA, Cuba, and in the far east (Israel, etc.) -- and assumed to be associated with the Massad and such groups as others have mentioned. In addition to CW, these numbers stations (found all over the spectrum) also use SSB or AM in english or spanish to read their list of numbers. Activity from these numbers stations has known to increase substantially during times of international incidents, etc. Some of the USAF stations were found by shortwave listeners, down to the building, during the Gulf War due to the increased level of activity. This was reported, with photos of the buildings and antennas, in an issue of "Monitoring Times" about a year after the Gulf War.

Just as our hobby is ham radio and QRP, there are others out there whose hobby is amateur cryptography. They have their own websites, newsletters, etc. They have monitored these number stations for years in an attempt to get some "real live encrypted data" to decode, which has been successfully decoded in some cases. But rare. So if anybody can decode one of these transmissions or even come close to showing ID or location of origin, you would be a full blown hero in certain esoteric circles. You might even land a good paying job with the NSA :-)

Sorry for the OT - but it *is* a form of communications, and communications is what most of us have interest in. This description is for those just not quite sure what this "number station" stuff is all about. They remain an enigma since their appearance in the 1950's.

09273 88253 12045
66284 19372 77027

Which translates to: 72, Paul NA5N

Date: Wed, 02 May 2001 19:17:07
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu

Subject: [97509] Re: [MH101] DDS VFO instead of a crystal
Message-ID: <F114cVXqxsD1Ty9CMdZ0000718d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Adam Vazquez (adamvaz@palm.net) wrote:

>(snip...)
>Maybe someone could design something along those lines: a
>fully adjustable DDS VFO with outboard computer control.
>The neat thing about using DDS is you could do practically
>any type of modulation.

TANSTAAFL.

As others have pointed out, DDS has a price. Circuit complexity, power consumption, parts availability, parts packaging, spectral purity, etc. etc. I've played with AD7008, AD9850 and Q2220. They all work well. But you have to treat them right. I'm not overly concerned about price - they're not that expensive compared to a discrete component VFO (especially if the VFO is at all elaborate), and you get what you pay for.

The long-obsolete Q2220 (an old Qualcomm part) is a parallel-input device, and I usually use a diode-matrix board for spot frequencies. Many moons ago I cobbled together a controller for it with a Basic Stamp, an LCD, a shaft encoder and a bunch of glue logic. It worked fine, though I never got the frequency readout quite right.

Some devices have I/Q output, and many almost all have facilities for I/Q modulation. AO-40 uses a whole bunch of AD7008s in its digital modems. An interesting app note for AD9850 (AN-543) is an FM radio transmitter, digitizing audio and playing tunes on the DDS.

>Any takers, please ??

No point in volunteering others - it's **your** idea.
You do it.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 02 May 2001 19:29:38 -0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [97510] Re: QRPTTF
Message-ID: <F192n1T2NqFJ3s13xbY000099e7@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Okay, I haven't been paying alot of attention, but QRPTTF seems to mean QRP "To The Field." Is there a certain time that everyone does this - like a QRP Field Day, or is it just anytime that people want to go out?

Delbert Long, AD6WE
2111 Cheyenne Way Unit 9
Fullerton, CA 92833-4912
Grid Square DM13

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 02 May 2001 19:38:34 +0000
From: Garie Halstead <k8kfj@ntelos.net>
To: Laura Halliday VE7LDH <marsgal42@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97511] Re: [OT] Mysteries of 30-meters
Message-ID: <3AF01BEA.8BDC4576@ntelos.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

On Wednesday, 02 May 2001, Laura Halliday wrote:

> I have a couple of numbers station recordings on my web

The following is FYI only....

I was once was chastised on a 40m shortwave listener's net for getting into specifics (callsigns, etc.) of some of my loggings of Russian vessels in CW working a Cuban shore station. I always enjoyed copying the Maritime traffic because there were some super QRQ ops that could really kick butt. It was great practice. Anyway, the NCS indicated I could be in violation of a communications act which prohibits the

divulging of information to a third party (which I had intercepted).

The intercept itself wasn't unlawful but telling someone else what you had overheard evidently was. This deals with the intercept of point-to-point type communications (not general broadcast xmissions).

I didn't research what they had said ... I just stuck to SWBC station loggings on the net thereafter. :-) Seems as if I do remember some rather specific digital loggings in Monitoring Times Magazine when I was a subscriber some years ago though.

Anyway, I'll let you be the judge concerning the content on your website.

NOTE: I was an Air Force Morse Intercept Operator for 4 years overseas and it's funny they didn't mention anything to me about any dang 1934 Communications Act. HI HI At least they didn't put me on an aircraft shadowing China (although we had airborne ops in those cold war days) but Pakistan wasn't exactly a plush vacation spot either.

72 //Gary *K8KFJ*
[West Virginia]

Date: Wed, 2 May 2001 15:48:39 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-1@Lehigh.EDU
Subject: [97512] NEQRP SSB NET QUERY
Message-ID: <0F8248F2A0.2B1D594C-0N85256A40.006C995A@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Please email your opinion about changing the start time of the SSB NET to 7:30PM EDST rather than currently 7:00PM EDST?

Also is Tuesday a good night for all who might be interested?

Your help would be greatly appreciated.

R0n - N1ZSW

Date: Wed, 02 May 2001 15:47:31 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: "Paul Harden, NA5N" <na5n@rt66.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [97513] Re: [OT] Mysteries of 30-meters
Message-ID: <3AF06452.C169A58F@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul,

I won't dispute that the propaganda you have read says they are all meteo stations. But tell me then, why does any nation need to encrypt its meteo transmissions? Frankly I cannot see any purpose to that, weather observations are normally NOT encrypted except in time of WAR!

As far as embassy stations go, here in the DC area we hear far more embassy and intelligence stations than any where else in America. That they operate on meteo frequencies seems fairly likely to me. Of course I am not an intelligence type!

73

Date: Wed, 02 May 2001 15:51:31 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k8kfj@ntelos.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [97514] Re: [OT] Mysteries of 30-meters
Message-ID: <3AF06543.CB549F49@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well Gary, there is a difference between being an "official intercept" operator and being just another amateur! Hams have always had that restriction on third party traffic. I doubt that copying maritime traffic would compromise very much unless you happened to be doing it while the Cuban missile crisis was going on! Copying commercial ship traffic, when it is more than just a call list, can be a very educational exercise in copying high speed CW!

73

Date: Wed, 2 May 2001 16:10:47 -0400
From: "Charlie Corp" <k2pc@adelphia.net>
To: <mulveyr@iname.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [97515] Re: [OT] Mysteries of 30-meters
Message-ID: <003e01c0d343\$faaa2ca0\$9a623218@bur.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

One-time pads are breakable. They were back in the Korean War days and with the great computers we have today, they are probably much easier. Its not easy and it takes a lot of data and by the time a message is broken it may be too late to be of any use. But it will help when trying to break the next message.

Pete, K2PC

Date: Wed, 02 May 2001 13:19:58 -0700
From: JJ&A <w7ls@blarg.net>
To: qrp-l@lehigh.edu
Subject: [97516] Epiphyte-3. Still in bag.
Message-ID: <3AF06BEE.EA111F47@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Click on
[http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?
ViewItem&item=1234509148&r=0&t=0&showTutorial=0&ed=989544110&indexURL=0&rd=1](http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1234509148&r=0&t=0&showTutorial=0&ed=989544110&indexURL=0&rd=1)

Date: Wed, 2 May 2001 16:21:19 -0400 (EDT)
From: mulveyr@iname.com
To: k2pc@adelphia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97517] Re: [OT] Mysteries of 30-meters
Message-ID: <200105022021.QAA07741@mulvey.dyndns.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

[Charset iso-8859-1 unsupported, filtering to ASCII...]

> One-time pads are breakable. They were back in the Korean War days and with
> the great computers we have today, they are probably much easier. Its not
> easy and it takes a lot of data and by the time a message is broken it may
> be too late to be of any use. But it will help when trying to break the next
> message.

Incorrect - one-time-pads are NOT breakable, unless there is a failure in either key generation, or they are used more than once. As I mentioned in my previous posts, there have been cases where messages were decrypted, but that was only because of procedural errors. I suspect you're thinking of some other encryption system when you assert that "it will help when trying to break the next message." By definition, a OTP key has absolutely no relation to any other OTP key, and therefore cannot be used to provide cribs for other messages.

If you have a citation for ANY specific case where a OTP was broken by anything other than faulty procedures, I'd love to see it, but public cryptographic research certainly doesn't support the possibility.

- Rich

Date: Wed, 2 May 2001 16:26:39 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <adamvaz@palm.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97518] RE: [MobileQRPers]Most Effective PortableAntenna?
Message-ID: <GAECLOGOMILPLBGKKPEGKEGGCHAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

I have had great luck with PW 1, see my link and writeup
<http://aa8vs.dhs.org/aa8vs/pw1.htm>

=====

Chuck Mabbott

AA8VS

42 19' 52" N 83 28' 32" W

Grid Square EN82gh

Home Page: <http://aa8vs.dhs.org/aa8vs>

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Adam Vazquez

Sent: Tuesday, May 01, 2001 10:47 PM

To: Low Power Amateur Radio Discussion

Subject: [MobileQRPers] Most Effective Portable Antenna?

Hello de Adam Kb2Jpd

After using a SG-2020 in the mobile for 2 years, I have decided to move the station out into the great outdoors.

I am tired of trying to clean up the RFI generated out of my 1997 Mitsubishi. Maybe if they had better support and had not placed such a junk-generating ignition system.

Besides, my car seats suck and the gnats and mosquitoes too often collect in the vehicle. I get tired of the smell and taste of skeeter spray in an enclosed space.

My most pressing problem now is getting an effective HF multi-band antenna that operator-easy to setup and take down.

The antenna should be rather compact and be human and environmentally friendly.

I setup where human tourists as well as deer and wildlife forage. Don't laugh, I have had a curious doe investigate my car by sticking her head through the drivers window. I had some off-frequency CW on the radio awhile updating the log. I looked up and got a big surprise.

So far the near-backbreaking station (pre-FT-817) consists of:

*17 AH 12v battery (a car battery jumper w/ built-in LED voltmeter)

*SGC SG-2020

*Mizuho 10m SSB/CW HT (wish I had the Tokyo HiPower HT)

*Kenwood TR-751 2M all-mode

*Ten-Tec 8w 6M<-2M transverter mounted on top of 2M.

* 2m and 440 torpedo GP from Italy.

*a 4 foot Outbacker Stealth+ mounted on the trunk with the mobile mount.

* a half-size G5RV

* MFJ 941 and 945 tuners (the newer 945 already needs new caps due to my rough shipping.)

Anyone have a suggestion to the next move?

Adam Kb2Jpd

Date: Wed, 2 May 2001 16:43:03 -0400
From: "Charlie Corp" <k2pc@adelphia.net>
To: <mulveyr@iname.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97519] Re: [OT] Mysteries of 30-meters
Message-ID: <006801c0d348\$7c6b80a0\$9a623218@bur.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lets put it this way: The information in the messages, and the identification of the sending and receiving stations can be discovered, sometimes by mistakes made in transmission but many times from information derived by other means. (addressing, location, and other data)

Pete, K2PC

Date: Wed, 2 May 2001 16:40:04 -0400
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: <w1pid@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97520] RE: Any QRP'er at the Hosstrader's hamfest ?

Message-ID: <LPBBJAGIPFHKPJENAKLOCEGNEIAA.n1bq@wulfdn.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How about 147.52 MHz, its easy to remember and no where near as crowded as its 146 counterpart!!!! From what I am seeing we have N10DL, KM1Z, N1BQ(me), W1RFI, KD1JV, W1PID (you) ... I am going to have my K-1 and 817 along ... as I said before look for a 1991 black Blazer with VT Purple Heart plates (we don't have DV plates in Vt these are the next best thing!), a goofy golden retriever (Spenser the wonder mutt), a 20 foot mast with a 20m dipole and a gray/blue North Face dome tent.

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Jim Cluett
> Sent: Wednesday, May 02, 2001 12:46 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Any QRP'er at the Hosstrader's hamfest ?
>
>
> do we need a 2 meter simplex freq. to meet on??
>
> w1pid@arrl.net Jim
>
>
> --- Steven Weber <kd1jv@moose.ncia.net> wrote:
> > I think I'll wander down too. A local gave me a
> > Dentron 1KW linear I
> > want to unload quick, before I'm tempeted to try it
> > out :-) I'll also
> > bring my new backpacking station packaged in a VHS
> > cassette storage
> > case, featuring a shirt pocket sized DSW-40 like
> > rig..only 10.5
> > cu-in.
> >
> > 72,
> > Steve, KD1JV in the white Mountains of New Hampshire
> > "melt solder"
>
>
> -----
> Do You Yahoo!?
> Yahoo! Auctions - buy the things you want at great prices
> <http://auctions.yahoo.com/>

>

Date: Wed, 2 May 2001 13:44:17 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97521] Ameco R5 Schematic
Message-ID: <20010502204417.67945.qmail@web9607.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

As I was trying to get motivated to clean out a downstairs closet - i remembered this old receiver is in there somewhere. It has an instability in the receive front end (at least its apparent when playing with the RF gain control). its from the 1960's (ok i'm not quite that vintage - i bought it used - my second shortwave receiver). its also the receiver that was depicted with Ameco's 2 tube QRP transmitter!

anyway, if someone has a schematic for this relic let me know. thanks. not really worth fixing, except as a conversation piece - but again it is a general coverage receiver from 0.5 - 54 MHz.

curt wb8yyy

Do You Yahoo!?
Yahoo! Auctions - buy the things you want at great prices
<http://auctions.yahoo.com/>

Date: Wed, 2 May 2001 13:49:03 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: Drbob92031@aol.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [97522] Re: Hand capacitance?
Message-ID: <20010502204903.28570.qmail@web9606.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Does this mainly happen on one band? I suspect a better ground could help. Also if you have more than one antenna. I have not noticed this effect with my

own HW-8, nor do i have ideal shack RF grounding myself. FYI - i use it with the companion HW7A power supply - i don't know if it has any virtues for use with a DC receiver.

curt wb8yyy

--- Drbob92031@aol.com wrote:

> To all those who have the answers;

>

> Was working QRP with my HW-8 and noticed that if I

> placed my hand on the

> cabinet during "receive" there was a reduction in

> hum in my earphones.

>

> Explain please.

>

> Tnx es 72/73 de WA2EAW..Bob

Do You Yahoo!?

Yahoo! Auctions - buy the things you want at great prices

<http://auctions.yahoo.com/>

Date: Wed, 2 May 2001 17:01:42 -0400

From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [97523] RE: Any QRP'er at the Hosstrader's hamfest ?

Message-ID: <125490A005E3D3118C9C00805FC743CC023B2CDD@KAHLESS>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

We will also have N1KB (a budding QRPer), AA1D0 (K1) and KC1SX (a denizen of QRP-L, though not nearly as vocal as me). Unfortunately, W1VT won't make he; he and N1VH just bought a house and are busy being new homeowners. :-)

73,

Ed Hare, W1RFI

ARRL Laboratory Supervisor

225 Main St

Newington, CT 06111

Tel: 860-594-0318

FAX: 860-594-0259

Internet: w1rfi@arrl.org

ARRL Web: <http://www.arrl.org>

ARRL Technical Information Service: <http://www.arrl.org/tis/>

-----Original Message-----

From: Brian B. Riley, N1BQ [mailto:n1bq@wulfden.org]
Sent: Wednesday, May 02, 2001 4:40 PM
To: Low Power Amateur Radio Discussion
Subject: RE: Any QRP'er at the Hosstrader's hamfest ?

How about 147.52 MHz, its easy to remember and no where near as crowded as its 146 counterpart!!!! From what I am seeing we have N1ODL, KM1Z, N1BQ(me), W1RFI, KD1JV, W1PID (you) ... I am going to have my K-1 and 817 along ... as I said before look for a 1991 black Blazer with VT Purple Heart plates (we don't have DV plates in Vt these are the next best thing!), a goofy golden retriever (Spenser the wonder mutt), a 20 foot mast with a 20m dipole and a gray/blue North Face dome tent.

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Jim Cluett
> Sent: Wednesday, May 02, 2001 12:46 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Any QRP'er at the Hosstrader's hamfest ?

>

>

> do we need a 2 meter simplex freq. to meet on??

>

> w1pid@arrl.net Jim

>

>

> --- Steven Weber <kd1jv@moose.ncia.net> wrote:

> > I think I'll wander down too. A local gave me a

> > Dentron 1KW linear I

> > want to unload quick, before I'm tempeted to try it

> > out :-) I'll also

> > bring my new backpacking station packaged in a VHS

> > cassette storage

> > case, featuring a shirt pocket sized DSW-40 like

> > rig..only 10.5

> > cu-in.

> >

> > 72,

> > Steve, KD1JV in the white Mountains of New Hampshire

> > "melt solder"

>

>
>
> -----
> Do You Yahoo!?
> Yahoo! Auctions - buy the things you want at great prices
> <http://auctions.yahoo.com/>
>

Date: Wed, 2 May 2001 14:25:49 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>
Subject: [97524] RE: Any QRP'er at the Hosstrader's hamfest ?
Message-ID: <20010502212549.34540.qmail@web11605.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Brian and All - 147.52 sounds fine. I'll
be there friday evening and again saturday morning.
Hope to see you all. Jim w1pid@arrl.net
--- "Brian B. Riley, N1BQ" <n1bq@wulfden.org> wrote:
> How about 147.52 MHz, its easy to remember and no
> where near as crowded
> as its 146 counterpart!!!!!! From what I am seeing we
> have N10DL, KM1Z,
> N1BQ(me), W1RFI, KD1JV, W1PID (you) ... I am going
> to have my K-1 and
> 817 along ... as I said before look for a 1991 black
> Blazer with VT
> Purple Heart plates (we don't have DV plates in Vt
> these are the next
> best thing!), a goofy golden retriever (Spenser the
> wonder mutt), a 20
> foot mast with a 20m dipole and a gray/blue North
> Face dome tent.
>

> > -----Original Message-----
> > From: owner-qrp-1@Lehigh.EDU
> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> > Jim Cluett
> > Sent: Wednesday, May 02, 2001 12:46 PM
> > To: Low Power Amateur Radio Discussion
> > Subject: RE: Any QRP'er at the Hosstrader's
> hamfest ?
> >
> >
> > do we need a 2 meter simplex freq. to meet on??

> >
> > w1pid@arrl.net Jim
> >
> >
> > --- Steven Weber <kd1jv@moose.ncia.net> wrote:
> > > I think I'll wander down too. A local gave me a
> > > Dentron 1KW linear I
> > > want to unload quick, before I'm tempeted to try
> it
> > > out :-) I'll also
> > > bring my new backpacking station packaged in a
> VHS
> > > cassette storage
> > > case, featuring a shirt pocket sized DSW-40 like
> > > rig..only 10.5
> > > cu-in.
> > >
> > > 72,
> > > Steve, KD1JV in the white Mountains of New
> Hampshire
> > > "melt solder"
> >
> >
> > -----
> > Do You Yahoo!?
> > Yahoo! Auctions - buy the things you want at great
> prices
> > <http://auctions.yahoo.com/>
> >
>

Do You Yahoo!?
Yahoo! Auctions - buy the things you want at great prices
<http://auctions.yahoo.com/>

Date: Wed, 02 May 2001 21:42:41
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [97525] Re: [OT] Mysteries of 30-meters
Message-ID: <F310S9hplfjllQheaMG00013a6f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Garie Halstead <k8kfj@ntelos.net> wrote:

>On Wednesday, 02 May 2001, Laura Halliday wrote:
>
>>I have a couple of numbers station recordings on my web
>
>The following is FYI only....
>
>I was once was chastised on a 40m shortwave listener's net
>for getting into specifics (callsigns, etc.) of some of my
>loggings of Russian vessels in CW working a Cuban shore
>station...

I am aware of the legal issues involved, and considered them carefully before posting the recordings. One fact in favour of posting them was that they are encrypted, and thus contain no information that unfriendlies could exploit. There's lots I hear on HF that I would not post, like air traffic control.

If the originators of the transmissions ask me to remove them, I will.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 02 May 2001 21:58:24
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [97526] Re: [OT] Mysteries of 30-meters
Message-ID: <F2600UIHNkjgJKVApw0000002dc@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

The fact that one-time pads are unbreakable is proven in, for example, the cryptography chapter in Haykin. Since there is zero mutual information between the plain- and cyphertext, no decrypting procedure can do better than random chance.

Operational issues can compromise any cryptographic system - anything from stealing a pad to standing a

spy up against a brick wall and offering a blindfold,
or a change of employers...but that's another matter.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
ICBM: 49 15.042 N 122 59.053 W - Hospital/Shafte

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Date: Wed, 2 May 2001 18:12:07 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w6toy@erols.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [97527] Re: [OT] Mysteries of 30-meters
Message-ID: <009901c0d354\$f12f5ae0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You do realize that some governments have, in fairly recent
history, harassed and threatened lawsuits to anyone who
'receives their weather satelllites'?

I think it was one of Tagget books that had something in
there about that.

Mike

> Paul,
>
> I won't dispute that the propaganda you have read says they are all
meteo
> stations. But tell me then, why does any nation need to encrypt its
meteo
> transmissions? Frankly I cannot see any purpose to that, weather
observations are
> normally NOT encrypted except in time of WAR!
>
> As far as embassy stations go, here in the DC area we hear far more
embassy and
> intelligence stations than any where else in America. That they operate
on meteo
> frequencies seems fairly likely to me. Of course I am not an
intelligence type!

>
> 73

Date: Wed, 02 May 2001 22:25:36
From: "Jerry McCollom WOMC" <w0mc@hotmail.com>
To: qrp-l@lehigh.edu, ncarc@qth.net
Subject: [97528] FS: Epiphyte 3 kit, MS-15 kit
Message-ID: <F296Yf0scL9NtDEJmGz00013e35@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Continuing the shack clearance, here are things I doubt I get around to building. I'm asking the original prices on these:

- 1) Epiphyte 3 75m SSB Transceiver Kit
Price: \$105 Shipped

This was the Norcal kit that sold out so quickly. From the original club sale message:

The Epiphyte 3 is a SSB transceiver that puts out a full 5 watts using an IRF510 as a final, driven by a CA3020. The SSB filter is a 455 kHz Murata CFM455J1. This rig is used nightly by a group in British Columbia for local communications and to check into the BC SSB Net.

The kit consists of a NorCal quality double sided, silkscreened board, manual, all board mounted parts, and it includes the 10 turn pot, antenna connector, and power connector. It does not include the microphone or headphone connectors. We have left those up to you. The rig works great with the MFJ speaker mike by the way. It does not come with a case, but will fit a TenTec case. If you want digital readout, the rig will work great with the Digital Clock Counter from Blue Sky Engineering. (not supplied with kit).

- 2) Steve Weber's MS-15 Kit
Price: \$57 Shipped

Steve offered these to QRP-L earlier in the year. A great looking quality board, and, as I know from feedback from those who have built and used it, a nice 15M QRP transciever.

73,
Jerry

WOMC

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Wed, 2 May 2001 16:34:50 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Delbert Long <ad6we@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [97529] Re: QRPTTF
Message-ID: <Pine.SUN.4.10.10105021631580.11946-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 2 May 2001, Delbert Long wrote:

> Okay, I haven't been paying alot of attention, but QRPTTF seems to mean QRP
> "To The Field." Is there a certain time that everyone does this - like a
> QRP Field Day, or is it just anytime that people want to go out?

Delbert, and others,
QRP To The Field (QRPTTF) is an annual event sponsored by NorCal. It
is generally held on the last weekend in April. The posts you are reading
refers to the one that just occured last weekend.

Another "to the field" type of event is "QRP Afield" (QRPA), held in
August, I believe. Announcements for this years QRPA will no doubt be
made mid-summer.

72, Paul NA5N

Date: Wed, 02 May 2001 18:40:13 -0400
From: Hank Kohl K8DD <k8dd@arrl.net>
To: qrp-l@lehigh.edu
Subject: [97530] [Dayton] Dayton Hamvention & Rooms
Message-ID: <5.0.2.1.2.20010502183446.024fffd0@mail.tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

The Ramada Inn - The QRP-ARCI Motel for the 50th Hamvention will have:
Continental breakfast at approximately 6 AM for the attendees.

Bus service to the HARA arena from the Ramada - \$4 per day unlimited trips.

An area where the Hamvention will set up a booth to sell Anniversary Programs.

All the major QRP activities - Vendor Night, Show & Tell, Banquet, FDIM.

Due to a few cancellations and non-responses we have 5+ rooms available at the QRP price of \$74 per night + tax. Let me know before the end of the week - Sunday at the latest.

The latest Ramada List will be on <http://www.qsl.net/k8dd/rooms/dids.htm> later this week.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS <http://www.qsl.net/k8dd>
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/

End of QRP-L Digest 2177

